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# NOTICE OF ALLOWANCE AND FEE(S) DUE

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

MEKHLIN, ELI S

ART UNIT PAPER NUMBER

1728

DATE MAILED: 07/18/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,318	12/26/2006	Junichi Nakamura	294695US0PCT	5709

TITLE OF INVENTION: COATING, AQUEOUS COATING MATERIAL AND PROCESS FOR PRODUCING COATING USING THE SAME, AND

COATED ARTICLE WITH COATING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/18/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

appropriate. All further of indicated unless correcte maintenance fee notificat	correspondence including de below or directed other	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of many specifying a new corresponding to the cor	pondence address; as	be mailed to the current nd/or (b) indicating a separate	correspondence address as arate "FEE ADDRESS" for
		ock 1 for any change of address)	Fee(s	s) Transmittal. This ors. Each additional p	certificate cannot be used t	or domestic mailings of the for any other accompanying nt or formal drawing, must
OBLON, SPIV 1940 DUKE STE ALEXANDRIA,	REET	<sup>/2011</sup> AND MAIER & NI	EUSTADT L.L.P	Certif	icate of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,318	12/26/2006	•	Junichi Nakamura		294695US0PCT	5709
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/18/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
MEKHLI	MEKHLIN, ELI S		106-481000			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to			
PLEASE NOTE: Unlt recordation as set forth (A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an a	tent. If an assignee ssignment. and STATE OR CO	UNTRY)	ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Corp	oration or other private gro	oup entity Government
4a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
	s SMALL ENTITY statu	ıs. See 37 CFR 1.27.		•	ENTITY status. See 37 C	
interest as shown by the r	ecords of the United Sta	tes Patent and Trademark	Office.	к аррисан, а гедізіі	rea autorney or agent, or tr	ne assignee or other party in
Authorized Signature				Date		
Typed or printed name			Registration No			
This collection of information application. Confident submitting the completed this form and/or suggest Very 1450. Alexandria Very 1450.	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bur- irginia 22313-1450. Do	CFR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OF 6	on is required to obtain or re 1.14. This collection is esti depending upon the indivi- e Chief Information Office. COMPLETED FORMS TO	etain a benefit by the mated to take 12 min dual case. Any common, U.S. Patent and Tr	public which is to file (annutes to complete, includir ments on the amount of tia ademark Office, U.S. Dep SEND TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete arment of Commerce, P.O. for Patents, P.O. Box 1450.

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10/588,318	12/26/2006	294695US0PCT	5709	
22850 75	90 07/18/2011	EXAMINER		
OBLON, SPIVA 1940 DUKE STRE	K, MCCLELLAND	MEKHLIN, ELI S		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
		1728		

DATE MAILED: 07/18/2011

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 301 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 301 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.		Applicant(s)					
	10/588,3	18	NAKAMURA ET AL.					
Notice of Allowability	Examine		Art Unit					
	   ELI MEK	HLIN	1728					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.								
1. ☑ This communication is responsive to <u>June 10, 2011</u> .								
2. The allowed claim(s) is/are <u>12-19</u> .								
<ul> <li>3. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents</li> </ul>	e been rece e been rece	eived. eived in Application No.		tion from the				
International Bureau (PCT Rule 17.2(a)).								
* Certified copies not received:								
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.								
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				OTICE OF				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be subm	itted.						
(a) 🔲 including changes required by the Notice of Draftspers	on's Pater	nt Drawing Review ( PT	O-948) attached					
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,•							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date								
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				back) of				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.								
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)		5. Notice of Informa	I Patent Application					
<ol> <li>Notice of Preferences Gled (170-692)</li> <li>DNotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		6. ☐ Interview Summa	• •					
3. ☐ Information Disclosure Statements (PTO/SB/08),		Paper No./Mail [7.  Examiner's Amer	Date					
Paper No./Mail Date4.		8. 🛛 Examiner's State	ment of Reasons for Allo	wance				
of Biological Material		9.						
/ELI S MEKHLIN/		/Jennifer K. Michene						
Examiner, Art Unit 1728 Supervisory Patent Examiner, Art Unit 1728								

## **DETAILED ACTION**

(1)

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 9, 2011, has been entered.

Applicant amended claims 12 and 13. No new matter has been entered. Claims 12-19 are pending before the Office for review.

(2)

#### Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

With respect to **claims 12 and 13**, Applicant's amendment overcomes the rejection of the claims under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. MPEP Sec. 2172.01. The claimed invention now includes the polymer composition that is essential for achieving the feature that an area of colloidal silica exposed at a coating surface occupies 70% or more of the coating surface.

Additionally, claims 12 and 13, as amended, are now commensurate in scope with the unexpected results alleged by Applicant. The unexpected results are apparent

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based on an analysis of Additional Comparative Examples 1 and 2 (Affidavit filed November 12, 2010) and Example 2 (Specification, Table 2). Specifically, both Additional Comparative Examples 1 and 2 and Example 2 contain a polymer composition that is within the scope of the claimed invention. SZ-6030 is representative of the methyl siloxane and the Specification makes clear that siloxanes are substitutable for one another and that dimethyl siloxanes can be used within Polymer I. Paragraph 48. Both Additional Comparative Examples 1 and 2 and Example 2 use the same amount of colloidal silica and a nonionic surfactant that has the required number of repetitive polyoxyethylene units. Affidavit, Table 1 and Specification, Table 2. Additional Comparative Examples 1 and 2 use anionic surfactants that are not within the scope of the claimed anionic surfactant and lead to coating compositions wherein the occupied areas of colloidal silica at the coating surface are 25% and 22%, respectively. Affidavit, Table 2. Example 2 uses an anionic surfactant within the scope of the claimed invention and has an occupied area of colloidal silica at the coating surface of 82%. Specification, Table 4.

Accordingly, Applicant is able to overcome the art of record by establishing the superiority of occupied areas of colloidal silica of the claimed compositions compared to the prior art compositions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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(3)

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELI MEKHLIN whose telephone number is (571)270-7597. The examiner can normally be reached on 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer K. Michener can be reached on 571-272-1424. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ELI S MEKHLIN/ Examiner, Art Unit 1728 /Jennifer K. Michener/ Supervisory Patent Examiner, Art Unit 1728